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Application No. 10/575,367

Art Unit: 3725

Amendment under 37 CFR §1.116

Attorney Docket No.: 062402

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions of claims in the application:

Listing of Claims:

1. (Currently amended): A security paper comprising at least two fibrous paper plies,

wherein each of said plies is a material layer, the first ply being an external ply that includes at

least-one a first authentication element provided within a region of non-zero thickness of the first

ply, and the other ply, the second ply, comprising at least one of:

- a reinforcing element substantially absent from the first ply, said reinforcing element

being chosen from materials that improve the mechanical strength; and

- a second authentication element provided within an area of non-zero thickness of the

second ply, wherein the first authentication element of the first ply is absent from the second ply.

2. (Previously presented): The security paper as claimed in claim 1, wherein the second

ply comprises a reinforcing element, and said reinforcing element is chosen from synthetic

fibers, especially polyester or polyamide fibers, natural textile fibers, especially abaca, hemp,

flax, Chinook fibers, and mixtures thereof.

3. (Previously presented): The security paper as claimed in claim 2, wherein said

polyester fibers are polyethylene terephthalate fibers, in particular they are present in an amount

of between 10 and 20 parts by dry weight per 100 parts of the other fibers of said second ply.

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4. (Previously presented): The security paper as claimed in claim 1, wherein the second

ply comprises a second authentication element, and said second authentication element of said

first ply, and where appropriate that of said second ply, can be detected optically.

5. (Previously presented): The security paper as claimed in claim 4, wherein at least one

of said first and second authentication elements is chosen from watermarks, iridescent particles,

luminescent, in particular fluorescent or phosphorescent, fibers or particles, colored or

thermochromic fibers or particles, in particular said particles are flakes.

6. (Previously presented): The security paper as claimed in claim 1, wherein at least one

of said first and second authentication elements reacts to certain stimulations, giving a specific

signal that can be detected using a suitable apparatus.

7. (Previously presented): The security paper as claimed in claim 6, wherein said

reactive element is chosen from substances that react to electromagnetic fields.

8. (Previously presented): The security paper as claimed in claim 1, wherein said

external first ply includes a watermark as said first authentication element and has a thickness

substantially greater than that of said second ply or of the other plies.

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9. (Previously presented): The security paper as claimed in claim 1, wherein said second ply comprises a reinforcing element, and said reinforcing element also has an authentication

function.

10. (Previously presented): The security paper as claimed in claim 9, wherein said

reinforcing element constitutes said second authentication element of said second ply.

11. (Previously presented): The security paper as claimed in claim 1, wherein said

second ply comprises a reinforcing element and said security paper has a tear index of 10

mN.m²/g or higher.

12. (Previously presented): The security paper as claimed in claim 1, wherein the plies

are based on cotton fibers.

13. (Previously presented): The security paper as claimed in claim 1, which comprises

three fibrous plies, said external first ply having an authentication element, said second ply being

central and having said reinforcing element, and the third ply being another external ply having

an authentication element that may be different from that of said first ply.

14. (Previously presented): The security paper as claimed in claim 1, which is a

banknote paper.

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15. (Previously presented): A process for manufacturing a security paper as claimed in

claim 1, wherein said plies are assembled wet.

16. (Previously presented): The process for manufacturing a security paper as claimed in

claim 15, wherein said external first ply includes a watermark and is formed on a cylinder-mold

machine that includes a watermark wire.

17. (Previously presented): The security paper as claimed in claim 7, wherein said

reactive element is chosen from substances that react to electromagnetic fields of the microwave

type.

18. (Previously presented): The security paper as claimed in claim 8, wherein said

external first ply has a thickness about 1.5 to 2 times greater than that of said second ply or of the

other plies.

19. (Previously presented): The security paper as claimed in claim 1, wherein the second

ply, comprises a reinforcing element substantially absent from the first ply, said reinforcing

element being chosen from materials that improve the mechanical strength.

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20. (Previously presented): The security paper as claimed in claim 1, wherein the second

ply comprises a second authentication element provided within an area of non-zero thickness of

the second ply, wherein the first authentication element of the first ply is absent from the second

ply.

21. (Previously presented): A security paper according to claim 1, which comprises a

watermark as first authentication element in the first ply and a reinforcing element in the second

ply.

22. (Previously presented): A security paper comprising at least three fibrous paper plies,

the first ply being an external ply that includes at least one first authentication element,

the second ply being central and having a reinforcing element, and

the third ply being another external ply and having a second authentication element,

wherein the first authentication element of the first ply is absent from the third ply.

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